

## CONFIGURABLE COMMUNICATION INTEGRATED CIRCUIT

ABSTRACT

The present invention is a programmable integrated circuit that can be used to handle different communication specifications. In one embodiment, the integrated circuit contains at least two physical layer modules, a media independent interface and a media access control module. The physical layer modules are preferably fixed logic components embedded in programmable logic fabric. In another embodiment, the integrated circuit contains a physical layer module and at least two media access control modules. The physical layer module is preferably a fixed logic component embedded in programmable logic fabric.